CELL BIOLOGY AND CANCER					
Idaho Science Content Standards – Biology					
Activity	Standard	Descriptor			
1, 2, 3, 4	9-10.B.1.2.1	Use observations and data as evidence on which to base scientific explanations.			
3, 4	9-10.B.1.2.2	Develop models to explain concepts or systems.			
1, 2, 3, 4	9-10.B.1.2.3	Develop scientific explanations based on knowledge, logic and analysis.			
3, 4	9-10.B.1.3.1	Measure changes that can occur in and among systems.			
2, 3, 4	9-10.B.1.3.2	Analyze changes that can occur in and among systems.			
3, 4	9-10.B.1.6.1	Identify questions and concepts that guide scientific investigations.			
3, 4	9-10.B.1.6.2	Utilize the components of scientific problem solving to design, conduct, and communicate results of investigations.			
3, 4	9-10.B.1.6.3	Use appropriate technology and mathematics to make investigations.			
2, 3, 4	9-10.B.1.6.4	Formulate scientific explanations and models using logic and evidence.			
1, 2, 3, 4	9-10.B.1.6.5	Analyze alternative explanations and models.			
2, 3, 4, 5	9-10.B.1.6.6	Communicate and defend a scientific argument.			
4	9-10.B.1.6.7	Explain the differences among observations, hypotheses, and theories.			
1, 2, 3	9-10.B.1.8.1	Analyze technical writing, graphs, charts, and diagrams.			
2	9-10.B.3.3.3	Explain how cells use DNA to store and use information for cell functions.			
3	9-10.B.3.3.4	Explain how selective expression of genes can produce specialized cells from a single cell.			
2	9-10.B.5.2.2	Explain how technology advances science.			
	Idaho Mathematics Content Standards – Grades 9 - 10				
Activity	Standard	Descriptor			
3, 4	9.M.1.1.2 10.M.1.1.2	Use positive and negative numbers, absolute value, fractions, decimals, percentages, and scientific notation, including application in real world situations.			

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3, 4	9.M.1.1.6 10.M.1.1.6	Use appropriate vocabulary.		
3, 4	9.M.1.3.1 10.M.1.3.1	Apply number sense to everyday situations and judge reasonableness of results.		
3	9.M.3.1.1 10.M.3.1.1	Represent mathematical relationships using variables, expressions, linear equations and inequalities.		
3	9.M.4.4.1 10.M.4.4.1	Create graphs and equations for linear relationships.		
3	9.M.4.4.2 10.M.4.4.2	Represent linear relationships using tables, graphs, and mathematical symbols.		
3	10.M.4.5.1	Use logic to make and evaluate mathematical arguments.		
3	9.M.5.1.1 10.M.5.1.1	Analyze and interpret tables, charts, and graphs, including scatter plots, broken line graphs, and box-and-whisker plots.		
1, 3, 4	9.M.5.2.1 10.M.5.2.1	Collect, organize, and display data in tables, charts, and graphs.		
1, 3	9.M.5.5.1 10.M.5.5.1	Make predictions based on randomness, chance, equally likely events, and probability.		
3, 4	9.M.5.5.2 10.M.5.5.2	Use appropriate tools/technology to conduct simulations and employ graphical models to make predictions or decisions based on data.		
Idaho Language Arts Content Standards – Grades 9 - 10				
Activity	Standard	Descriptor		
1, 2, 3, 4	9.LA.1.8.2 10.LA.1.8.2	Use context analysis to determine the meanings of unfamiliar words.		
All activities	9.LA.2.1.1	Synthesize the content from several sources on a single issue; paraphrase ideas to demonstrate comprehension.		
All activities	10.LA.2.1.1	Synthesize the content from several sources on a single issue; compare and contrast ideas to demonstrate comprehension.		
All activities	9.LA.2.2.2 10.LA.2.2.2	Define the purpose and audience of a variety of communication formats (e.g., essays, letters, user manuals, lab reports, websites).		

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All activities	9.LA.3.1.2 10.LA.3.1.2	Generate a main idea or thesis appropriate to a type of writing.
All activities	9.LA.3.1.4 10.LA.3.1.4	Match format to purpose and audience.
All activities	9.LA.3.2.2 10.LA.3.2.2	Sequence ideas in a cohesive, meaningful order.
All activities	9.LA.3.3.4 10.LA.3.3.4	Use a variety of sentence structures to improve sentence fluency and enhance style.
All activities	9.LA.3.5.2 10.LA.3.5.2	Share writing with intended audience.
3, 4	9.LA.4.2.3	Write technical or scientific text that identifies a sequence of activities or processes.
5	9.LA.4.3.1	Write persuasive compositions that organize ideas and evidence in a sustained and effective fashion.
5	10.LA.4.3.1	Write persuasive compositions that use specific rhetorical devices to support assertions (e.g., appealing to logic thorough reasoning; appealing to emotion or ethical belief; or relating a personal anecdote or analogy).
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	<u> </u>	Idaho Speech Content Standards – Grades 9 - 12
Activity	Standard	
Activity All activities	Standard 9-12.Spch.6.1.3	Idaho Speech Content Standards – Grades 9 - 12
		Idaho Speech Content Standards – Grades 9 - 12 Descriptor Draw conclusions about the ideas under discussion and support those conclusions with convincing
All activities	9-12.Spch.6.1.3	Idaho Speech Content Standards – Grades 9 - 12 Descriptor Draw conclusions about the ideas under discussion and support those conclusions with convincing evidence. Use effective and interesting language, including formal expressions for effect, standard English for
All activities 1, 2, 3, 4	9-12.Spch.6.1.3 9-12.Spch.6.2.5	Idaho Speech Content Standards – Grades 9 - 12 Descriptor Draw conclusions about the ideas under discussion and support those conclusions with convincing evidence. Use effective and interesting language, including formal expressions for effect, standard English for clarity, and technical language for specificity. Deliver narrative presentations that narrate a sequence of events and communicate their significance to
All activities 1, 2, 3, 4	9-12.Spch.6.2.5 9-12.Spch.6.2.7	Idaho Speech Content Standards – Grades 9 - 12 Descriptor Draw conclusions about the ideas under discussion and support those conclusions with convincing evidence. Use effective and interesting language, including formal expressions for effect, standard English for clarity, and technical language for specificity. Deliver narrative presentations that narrate a sequence of events and communicate their significance to the audience. Deliver expository presentations that provide evidence in support of a thesis. Include related claims and

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Idaho Health Content Standards – Grades 9 - 12					
Activity	Standard	Descriptor			
2, 3, 4	9-12.H.1.1.5	Identify and evaluate the prevention, causes, symptoms, treatment, and consequences of diseases and disorders.			
2, 3	9-12.H.1.1.6	Assess environmental and other external factors that affect individual and community health (public health policies, governmental regulations, research).			
1, 5	9-12.H.2.1.3	Evaluate the impact of risky behaviors on personal and community health.			
4, 5	9-12.H.2.1.4	Identify prevention strategies that address positive behaviors and their benefits.			
4	9-12.H.4.1.1	Evaluate the validity of health information, products and services (advertising claims, quackery, fraudulence, health-related research).			
2, 3	9-12.H.4.1.2	Evaluate resources from home, school, library, and the community that provide valid health care information.			
4	9-12.H.4.1.3	Evaluate factors and situations that influence personal selection of health care products and services (when to seek treatment, when or what product to use).			